

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1                   1.       (Currently amended): A method performed by a presentation recorder  
2 device of communicating information received during a multimedia presentation, comprising:  
3                   ~~providing an adapter comprising a transceiver;~~  
4                   receiving[[],] ~~at the adapter,~~ first information at the presentation recorder device  
5 from a first system, the first information including at least one of video information or audio  
6 ~~information from a first system, the at least one of video information or audio information~~  
7 generated from a presentation file;  
8                   receiving[[],] ~~at the adapter,~~ second information at the presentation recorder  
9 device, the second information including at least one of video information or audio information  
10 ~~audio or video information~~ from a capture device, the second information captured by the  
11 capture device during the multimedia presentation;  
12                   ~~differentiating between a first video frame and a second video frame, at the adapter,~~  
13 ~~of the video information received from the first system or the capture device~~ analyzing video  
14 information received from the first system or video information received from the capture device  
15 at the presentation recorder device to determine a difference between a first video frame and a  
16 second video frame;  
17                   selecting ~~based on the differentiating, at the adapter,~~ a set of one or more keyframes  
18 at the presentation recorder device from the analyzed video information received from the first  
19 system or the analyzed video information received from the capture device in response to a user-  
20 configurable threshold and the difference between a first video frame and a second video frame;  
21 and

22 analyzing the first information and the second information at the presentation  
23 recorder device to extract textual information from the first information or the second  
24 information using one or more text recognition techniques;  
25 generating a presentation representation at the presentation recorder device of the  
26 first information and the second information, the presentation representation including a  
27 representation of each keyframe in the set of keyframes and the textual information extracted by  
28 the presentation recorder device from the first information or the second information;  
29 communicating[[,]] from the adapter using the transceiver, at least a portion of the  
30 presentation representation from the presentation recorder device to one or more devices, the  
31 communicated portion of the presentation representation including one or more keyframes from  
32 the set of keyframes and a portion of the textural information.

1 2. (Currently amended): The method of claim 1[[,]] further comprising:  
2 synchronizing [[the]] audio information at the presentation recorder device  
3 received from the first system or from the capture device at the adapter with the selected set of  
4 keyframes.

1 3. (Currently amended): The method of claim 1 further comprising:  
2 storing the set of keyframes in a memory associated with the presentation recorder  
3 device coupled to the adapter.

1 4. (Currently amended): The method of claim 3 further comprising:  
2 receiving[[,]] at the adapter, a request at the presentation recorder device from a  
3 device requesting transmission of a first portion of the one or more keyframes in the set of  
4 keyframes;  
5 in response to the request, determining at the presentation recorder device the ~~first~~  
6 portion of the one or more keyframes in the set of keyframes requested by the device and  
7 corresponding audio information; and

8                    wherein communicating at least a portion of the presentation representation  
9   further comprises transmitting the ~~first portion of the set of keyframes and~~ corresponding audio  
10 information from the presentation recorder device to the device.

1                    5.        (Currently amended): The method of claim 4 wherein the request received  
2 from the device requests transmission of a portion of the first information received by the ~~adapter~~  
3 presentation recorder device from the first system.

1                    6.        (Currently amended): The method of claim 4 wherein the request received  
2 from the device requests transmission of a portion of the second information received by the  
3 ~~adapter~~ presentation recorder device from the capture device.

1                    7.        (Currently amended): The method of claim 4 wherein the request received  
2 from the device requests transmission of audio information from the first information or the  
3 second information received by the ~~adapter~~ presentation recorder device.

1                    8.        (Currently amended): The method of claim 4 wherein the request received  
2 from the device requests transmission of video information from the first information or the  
3 second information received by the ~~adapter~~ presentation recorder device.

1                    9.        (Currently amended): The method of claim 4 wherein the request received  
2 from the device requests transmission of audio or video information received by the ~~adapter~~  
3 presentation recorder device from the first system and the capture device between a start time  
4 and an end time.

1                    10.       (Currently amended): The method of claim 1 further comprising:  
2                    processing, at the adapter, the information received from the first system and the  
3 information received from the capture device to generate a first representation;  
4                    wherein communicating the information from the adapter further comprises  
5 transmitting at least a portion of the first representation from the adapter;

6                wherein processing the information received from the first system and the  
7 ~~information received from the capture device to generate the first representation comprises:~~

8                selecting a ~~plurality of video~~ the one or more keyframes at the presentation  
9 recorder device from video information in the first information or the second information  
10 received by the adapter;

11                synchronizing the ~~plurality of video~~ the one or more keyframes at the presentation  
12 recorder device with audio information received from the first system and with audio  
13 information received from the capture device ~~received by the adapter;~~ and

14                storing ~~third information related to~~ associating the plurality of video one or more  
15 keyframes with the audio information received from the first device, the audio information  
16 received from the capture device, and the portion of the textual information.

1                11.        (Currently amended): The method of claim 10~~[:]~~ ~~wherein processing the~~  
2 ~~information received from the first system and the information received from the capture device~~  
3 ~~to generate the first representation further comprises comprising:~~

4                generating a web page for each ~~video~~ keyframe in the ~~plurality of video~~ one or  
5 more keyframes, each web page including a video frame;

6                assigning a uniform resource locator (URL) to each web page; and

7                wherein ~~transmitting~~ communicating at least a portion of the first presentation  
8 representation comprises transmitting at least one URL assigned to a web page.

1                12.        (Currently amended): The method of claim 11 ~~wherein transmitting at~~  
2 ~~least a portion of the first representation comprises further comprising:~~

3                receiving~~[:]~~ at the adapter, a request at the presentation recorder device from a  
4 device identifying a first URL;

5                in response to the request, determining at the presentation recorder device a first  
6 web page corresponding to the first URL; and

7                wherein communicating at least a portion of the presentation representation  
8 comprises transmitting the first web page from the presentation recorder device to the device.

13. (Currently amended): The method of claim 1 wherein selecting the set of one or more keyframes at the presentation recorder device in response to the user-configurable threshold comprises selecting at the presentation recorder device frames of video at a predetermined sampling interval.

14. (Currently amended): A computer program product stored on a computer readable medium and executed by an adapter for communicating information received during a multimedia presentation, comprising:

code for receiving first information at the adapter from a first system, the first information comprising at least one of video information or audio information generated from a presentation file;

code for receiving second information at the adapter from a capture device, the second information including at least one of video information or audio information ~~at least one of audio or video information from a capture device, the at least one of audio or video information~~ captured by the capture device during the multimedia presentation;

code for ~~differenceing between a first video frame and a second video frame of the video information received from the first system or the capture device~~ analyzing video information received from the first system or video information received from the capture device at the presentation recorder device to determine a difference between a first video frame and a second video frame;

code for selecting ~~based on the differenceing, at the adapter,~~ a set of one or more keyframes from the analyzed video information received from the first system or analyzed video information received from the capture device at the adapter in response to a user-configurable threshold; ~~and~~

code for analyzing the first information and the second information at the adapter to extract textual information from the first information or the second information using one or more recognition techniques;

code for generating a presentation representation at the adapter of the first information and the second information, the presentation representation including a

representation of each keyframe in the set of keyframes and the textual information extracted by the adapter from the first information or the second information;

code for communicating at least a portion of the presentation representation from the adapter to one or more devices, the communicated portion of the presentation representation including one or more keyframes from the set of keyframes and a portion of the textual information.

15. (Currently amended): The computer program product of claim 14[[:]] further comprising:

code for synchronizing [[the]] audio information at the adapter received from the first system or from the capture device at the adapter with the selected set of keyframes.

16. (Previously presented): The computer program product of claim 14 further comprising:

code for storing the set of keyframes in a memory coupled to the adapter.

17. (Currently amended): The computer program product of claim 16 further comprising:

code for receiving at the adapter a request from a device requesting transmission of a first portion of the one or more keyframes in the set of keyframes;

in response to the request, code for determining at the adapter the first portion of one or more keyframes in the set of keyframes requested by the device and corresponding audio information; and

wherein the code for communicating at least a portion of the presentation representation further comprises code for transmitting the first portion of the set of keyframes and corresponding audio information from the adapter to the device.

18. (Currently amended): The computer program product of claim 17 wherein the request received from the device requests transmission of a portion of the first information received by the adapter from the first system.

1                   19.     (Currently amended): The computer program product of claim 17 wherein  
2     the request received from the device requests transmission of a portion of the second information  
3     received by the adapter from the capture device.

1                   20.     (Previously presented): The computer program product of claim 17  
2     wherein the request received from the device requests transmission of audio information from  
3     the first information or the second information received by the adapter from the first system and  
4     the capture device.

1                   21.     (Currently amended): The computer program product of claim 17 wherein  
2     the request received from the device requests transmission of video information from the first  
3     information or the second information received by the adapter from the first system and the  
4     capture device.

1                   22.     (Currently amended): The computer program product of claim 17 wherein  
2     the request received from the device requests transmission of audio or video information  
3     received by the adapter from the first system and the capture device between a start time and an  
4     end time.

1                   23.     (Currently amended): The computer program product of claim 14 further  
2     comprising;  
3                   ~~code for processing the information received from the first system and the~~  
4     ~~information received from the capture device to generate a first representation;~~  
5                   ~~wherein the code for communicating further comprises code for transmitting at~~  
6     ~~least a portion of the first representation;~~  
7                   ~~wherein the code for processing the information received from the first system~~  
8     ~~and the information received from the capture device to generate the first representation~~  
9     ~~comprises:~~

code for selecting a ~~plurality of video~~ the one or more keyframes at the adapter  
from video information in the first information or the second information received from the first  
system and from the capture device;  
code for synchronizing the ~~plurality of video~~ one or more keyframes at the  
adapter with audio information received from the first system and with audio information  
received from the capture device; and  
code for storing third information ~~related to associating the plurality of video one~~  
or more keyframes with the audio information received from the first system, the audio  
information received from the capture device, and the portion of textual information.

24. (Currently amended): The computer program product of claim 23 ~~wherein~~  
~~the code for processing the information received from the first system and the information~~  
~~received from the capture device to generate the first representation further comprises~~  
comprising:  
code for generating a web page for each ~~video~~ keyframe in the ~~plurality of video~~  
one or more keyframes, each web page including a video frame;  
code for assigning a uniform resource locator (URL) to each web page; and  
wherein the code for ~~transmitting~~ communicating at least a portion of the first  
presentation representation comprises code for transmitting at least one URL assigned to a web  
page.

25. (Currently amended): The computer program product of claim 24 ~~wherein~~  
~~the code for transmitting at least a portion of the first representation comprises further~~  
comprising:  
code for receiving a request at the adapter from a device identifying a first URL;  
in response to the request, code for determining at the adapter a first web page  
corresponding to the first URL; and  
wherein the code for communicating at least a portion of the presentation  
representation comprises code for transmitting the first web page from the adapter to the device.



26. (Currently amended): The computer program product of claim 23 wherein  
the code for ~~transmitting at least a portion of the first representation~~ analyzing the first  
information and the second information at the adapter to extract textual information from the first  
information or the second information using one or more recognition techniques comprises:  
code for receiving a request from a device requesting transmission of a set of  
~~video frames from the plurality of video frames; and~~  
in response to the request, code for transmitting the set of video frames to the  
device  
code for generating the portion of the textual information at the adapter from the  
audio information received from the capture device in response to a speech recognition  
technique;  
code for identifying a speaker associated with the audio information received  
from the capture device at the adapter based on a voice recognition technique; and  
wherein storing the third information comprises annotating the textual  
information in the presentation representation at the adapter with information associated with the  
identified speaker.

27. (Currently amended): A system for communicating information received  
during a multimedia presentation, the system comprising:  
a processor; and  
a memory coupled to the processor and configured to store a set of program  
modules executable by the processor, the program modules comprising:  
an input module ~~configured to;~~ and  
receive first information from a first system, the first information  
including at least one of video information or audio information generated from a presentation  
file,  
receive second information from a capture device, the second  
information including at least one of video information or audio information captured by the  
capture device during the multimedia presentation;

13                    a processing module configured to:  
14                    analyzing video information received from the first system or  
15 video information received from the capture device to determine a difference between a first  
16 video frame and a second video frame,  
17                    select a set of one or more keyframes from the analyzed video  
18 information received from the first system or the analyzed video information received from the  
19 capture device based on the difference between a first video frame and a second video frame in  
20 response to a user-configurable threshold,  
21                    analyze the first information and the second information to extract  
22 textual information from the first information or the second information using one or more  
23 recognition techniques, and  
24                    generate a presentation representation of the first information and  
25 the second information, the presentation representation including a representation of each  
26 keyframe in the set of keyframes and the textual information extracted by the presentation  
27 recorder device from the first information or the second information; and  
28                    a communication module configured to communicate at least a portion of  
29 the presentation representation to one or more devices, the communicated portion of the  
30 presentation representation including one or more keyframes from the set of keyframes and a  
31 portion of the textual information [[:]]  
32                    wherein the input module is configured to:  
33                    receive at least one of audio or video information from a first system, the  
34 at least one of video information or audio information generated from a presentation file;  
35                    receive information from a capture device, the information received from  
36 the capture device comprising at least one of audio or video information captured by the  
37 capture device during the multimedia presentation;  
38                    perform differencing between a first video frame from a second video  
39 frame of the video information received from the first system or the capture device;

40                   select based on the differencing, a set of one or more keyframes from the  
41                   video information received from the first system or the capture device in response to a  
42                   user-configurable threshold; and  
43                   wherein the communication module is configured to communicate one or more  
44                   keyframes of the set of keyframes.

1                   28.     (Currently amended): The system of claim 27 wherein[[[:]] the ~~input~~  
2                   processing module is further configured to synchronize [[the]] audio information received from  
3                   the first system or the capture device ~~at the adapter~~ with the selected set of keyframes.

1                   29.     (Currently amended): The system of claim 27 wherein the ~~input~~  
2                   processing module ~~is further includes a processor~~ configured to store the selected set of  
3                   keyframes in a memory storage device ~~coupled to the input module~~.

1                   30.     (Currently amended): The system of claim 29 wherein the processing  
2                   module is further configured to;  
3                   receive a request from a device requesting transmission of ~~a first portion of the~~  
4                   one or more keyframes in the set of keyframes;[[,]] ~~and wherein:~~  
5                   ~~the processor is configured to determine, in response to the request, the first~~  
6                   portion of one or more keyframes in the set of keyframes requested by the device and  
7                   corresponding audio information; and  
8                   wherein the communication module is further configured to communicate at least  
9                   a portion of the presentation representation by transmitting the first portion of the set of  
10                  keyframes and corresponding audio information to the device.

1                   31.     (Currently amended): The system of claim 30 wherein the request  
2                   received from the device requests transmission of a portion of the first information received from  
3                   the first system.

32. (Currently amended): The system of claim 30 wherein the request received from the device requests transmission of a portion of the second information received from the capture device.

33. (Currently amended): The system of claim 30 wherein the request received from the device requests transmission of audio information from the first information or the second information received from the first system and the capture device.

34. (Currently amended): The system of claim 30 wherein the request received from the device requests transmission of video information from the first information or the second information received from the first system and the capture device.

35. (Previously presented): The system of claim 30 wherein the request received from the device requests transmission of audio or video information received from the first system and the capture device between a start time and an end time.

36. (Currently amended): The system of claim 29 wherein the ~~processor~~ processing module is further configured to:  
select the one or more keyframes in the set of keyframes as a plurality of video frames from video information received by the input module;[[,]]  
~~to~~ synchronize the plurality of video frames with audio information received from the first system and with audio information received from the capture device by the input module;[[,]] and  
~~to~~ store third information ~~related to associating~~ the plurality of video frames with the audio information received from the first device, the audio information received from the second device, and the portion of the textual information.

37. (Currently amended): The system of claim 36 wherein[[,:]] the ~~processor~~ processing module is further configured to:

3 generate a web page for each video frame in the plurality of video frames,  
4 each web page including a video frame,[[:]] and  
5 assign a uniform resource locator (URL) to each web page; and  
6 wherein the communication module is further configured to communicate at least  
7 a portion of the presentation representation by transmitting at least one URL assigned to a web  
8 page.

1 38. (Currently amended): The system of claim 37 wherein the processing  
2 module is further configured to;  
3 receive a request from a device identifying a first URL, and[[.]] ~~and wherein:~~  
4 ~~the processor is configured to~~ determine, in response to the request, a first web  
5 page corresponding to the first URL; and  
6 wherein the communication module is further configured to communicate at least  
7 a portion of the presentation representation by transmitting the first web page to the device.

1 39. (Currently amended): The system of claim 36 wherein the processing  
2 module is further configured to;  
3 receive a request from a device requesting transmission of a set of video frames  
4 from the plurality of video frames,[[.]] and  
5 wherein, in response to the request, the communication module is further  
6 configured to communicate at least a portion of the presentation representation by transmitting  
7 the set of video frames to the device.

1 40. (Currently amended): A method of communicating information received  
2 during presentation of information from a presentation file, the method comprising:  
3 ~~providing a physical adapter;~~  
4 receiving, at ~~the physical~~ a presentation adapter, at least one of video information  
5 or audio information from a first data processing system communicably coupled to the ~~physical~~  
6 presentation adapter, the at least one of video information or audio information received during

presentation of the information from the presentation file and generated as a result of outputting contents of the presentation file;

~~differencing between a first video frame and a second video frame, at the physical adapter, of the video information received from the first data processing system~~ analyzing, at the presentation adapter, video information received from the first data processing system to determine a difference between a first video frame and a second video frame;

~~selecting, at the presentation adapter, based on the differencing, at the physical adapter, a set of one or more keyframes based at least upon from the analyzed video information received from the first data processing system based on the difference between a first video frame and second video frame in response to a user-configurable threshold; and~~

~~analyzing, at the presentation adapter, audio information received from the first data processing system to extract textual information using one or more recognition techniques;~~

~~generating, at the presentation adapter, a representation of the presentation file including a representation of each keyframe in the set of keyframes and the textual information extracted from the audio information;~~

~~transmitting the representation of the presentation file from the presentation adapter including one or more keyframes of the set of keyframes and a portion of the textual information to a second data processing system, wherein the second data processing system is enabled to output the information at least a portion of the representation of the presentation file received from the presentation adapter.~~

41. (Currently amended): The method of claim [[1]] 40 wherein ~~differencing between a first video frame and a second video frame~~ analyzing the video information received from the first data processing system comprises;

~~comparing a first frame of video to a subsequent second frame of video; and~~  
~~identifying the second frame as different from the first frame; and further~~  
~~comprising~~

~~storing both the first frame of video and the second frame of video.~~

42. (Currently amended): The method of claim 41 wherein comparing a first frame of video to a subsequent second frame of video identifying the second frame of video as different from the first frame of video comprises:  
comparing image pixels of the first frame of video and the second frame of video or comparing results of optical character recognition (OCR) with the first frame and results of OCR with the second frame.  
comparing the difference between the second frame of video and the first frame of video a predetermined threshold.

43. (Currently amended): The method of claim [[41]] 40 wherein analyzing audio information received from the first data processing system comprises:  
determining a portion of the textual information in response to applying speech recognition at the presentation adapter to the audio information.  
wherein identifying the second frame of video as different from the first frame of video comprises comparing image pixels of the first frame of video and the second frame of video.

44. (Currently amended): The computer program product of claim 14 wherein the code for analyzing the video information received from the first system or video information received from the capture device ~~differenceing between a first video frame and a second video frame~~ comprises;  
code for comparing a first frame of video to a subsequent second frame of video;  
~~and~~  
code for identifying the second frame as different from the first frame; ~~and~~  
~~further comprising~~ code for storing both the first frame of video and the second frame of video.

1                   45.     (Currently amended): The computer program product of claim 44 wherein  
2     the code for comparing a first frame of video to a subsequent second frame of video identifying  
3     ~~the second frame of video as different from the first frame of video~~ comprises:

4                   code for comparing image pixels of the first frame of video and the second frame  
5     of video or comparing results of optical character recognition (OCR) with the first frame and  
6     results of OCR with the second frame.

7                   ~~code for comparing the difference between the second frame of video and the first~~  
8     ~~frame of video to a predetermined threshold.~~

1                   46.     (Currently amended): The computer program product of claim [[45]] 14  
2     wherein the code for analyzing audio information received from the first data processing system  
3     comprises:

4                   code for determining a portion of the textual information in response to applying  
5     speech recognition at the presentation adapter to the audio information.

6                   ~~identifying the second frame of video as different from the first frame of video~~  
7     ~~comprises code for comparing image pixels of the first frame of video and the second frame of~~  
8     ~~video.~~

1                   47.     (Previously presented): The computer program product of claim 14  
2     wherein the code for selecting the set of keyframes in response to the user-configurable threshold  
3     comprises code for selecting frames of video at a predetermined sampling interval.